

DC-BALANCED 6B/8B TRANSMISSION CODE WITH LOCAL PARITY

Abstract

A transmission code which packs six bits of data and four control vectors into an eight-bit format is presented. A direct current (DC)-balanced 6B/8B transmission code is produced from an input data stream that includes one or more six-bit source vectors. A given coded vector is created in accordance with an eight binary digit coded vector set. The given coded vector has eight binary digits and the given coded vector corresponds to a given six-bit source vector. Each coded vector in the eight binary digit coded vector set is balanced. The given coded vector is output.